

HYDROSTATIC - DEEP BED FILTER
Models: AB700 / AB1000 / AB1400 / AB2000

The CHIPMASTER "AB" Deep-Bed Filter System is a high-efficiency filter designed to filter industrial fluids consisting of neat oil, water soluble or water. The deep bed design allows for smaller overall dimensions and better filtration compared to flat bed gravity filter designs.

The CHIPMASTER "AB" deep-Bed Filter is constructed of a steel housing that encloses a continuous mesh conveyor belt. The roll media is held in place on the descending conveyor by two rotating discs that have a double seal and form the chamber for the contaminated fluid preventing it from entering the clean, filtered fluid.

When the maximum fluid level in the deep-bed chamber is reached, the conveyor and media moves forward, replacing the dirty media with clean and depositing the dirty media in the hopper. The entire filtration process is fully automatic.

The filter maintains a positive rolling seal during media index to eliminate seal leakage of contaminated fluid into the clean tank.

Deep-Bed Filtration Systems



The CHIPMASTER "AB" Deep-Bed Filter is designed to filter fluids used in many industrial processes including: Grinding, Polishing, Machining and Washing. These filters use a range of roll filter media that is available in a wide range of micron and materials to optimize the filtration process and maximize media life. The Master utilizes a simple and efficient design that yields maximum performance with a minimum of maintenance.

CHIPMASTER	Max Liters/min (GPM)	Max Liters/min (GPM)	Max Liters/min (GPM)
	Water Soluble	Cutting oil	Water / Wash emulsions
AB 700	400 (106)	200 (53)	800 (210)
AB 1000	600 (159)	300 (79)	1200 (317)
AB 1400	800 (210)	400 (106)	1600 (423)
AB 2000	1200 (317)	600 (159)	2000 (528)

CHIPMASTER Deep-Bed Filter M/L/X & AB Series

Sequence of operation

A

Initial phase: The filtering media is clean, the dirty liquid begins to deposit contamination on the media surface. Liquid is filtered as it passes through the media to the tank below. The media is motionless as the contamination builds up on the media.

B

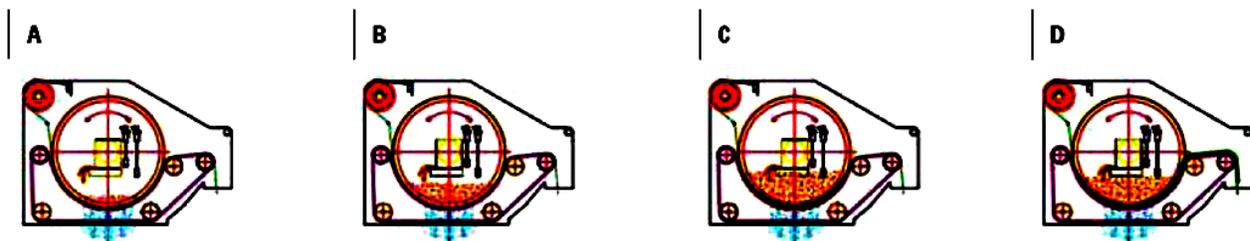
Intermediate phase: The filtering media becomes contaminated and the ability of the media to pass liquid is diminished. Liquid levels above the media begin to rise.

C

The liquid above the media has reached its maximum working level

D

The media index cycle begins as the motor / gear reducer advances the conveyor and the media, introducing clean media to the deep bed chamber. The clean media allows the fluid to pass easily and the fluid level drops to the intermediate phase level B



Maintenance

Visual check during operating cycle:

You can visually check the filter while operating by inspecting the float switch to be sure it is functioning properly. The seals on the rotating discs should be clean and not leave dark marks on the spent filter media. If dark marks appear the conveyor may need adjusting and or the seals may need to be replaced.

Routine Service:

Periodically inspect and adjust if needed the tension of the conveyor belt.

EVERY 2000 HOURS OF OPERATION:

Lubricate the driveshaft and the drum support

EVERY YEAR:

Remove sludge deposits from the dirty, clean tanks and filter using a suitable degreasing agent

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